

WHAT IS CLAIMED IS:

- 1        1.        A method for throttling data transfer, comprising:  
2            determining an amount of resources that are in use;  
3            when the amount of resources reaches a high threshold, notifying one or more  
4 primary control units to temporarily stop sending data; and  
5            when the amount of resources reaches a low threshold, notifying each previously  
6 notified primary control unit to resume sending data.
  
- 1        2.        The method of claim 1, wherein all primary control units are notified to  
2 temporarily stop sending data.
  
- 1        3.        The method of claim 1, further comprising:  
2            at a primary control unit, resuming sending data after a predetermined period of  
3 time has expired without receipt of notification to resume sending data.
  
- 1        4.        The method of claim 1, further comprising:  
2            when the amount of resources used is above a final threshold, re-notifying the one  
3 or more primary control units to temporarily stop sending data.
  
- 1        5.        The method of claim 1, wherein at least one of the resources is a cache.
  
- 1        6.        The method of claim 1, wherein the amount is measured by a percentage.
  
- 1        7.        The method of claim 1, wherein the one or more primary control units that  
2 are notified to temporarily stop sending data are selected based on an amount of resources  
3 being used by each primary control unit.

1           8.     The method of claim 7, further comprising:  
2           maintaining information on the amount of resources being used by each primary  
3 control unit.

1           9.     An article of manufacture including a program for throttling data transfer,  
2 wherein the program causes operations to be performed, the operations comprising:  
3           determining an amount of resources that are in use;  
4           when the amount of resources reaches a high threshold, notifying one or more  
5 primary control units to temporarily stop sending data; and  
6           when the amount of resources reaches a low threshold, notifying each previously  
7 notified primary control unit to resume sending data.

1           10.    The article of manufacture of claim 9, wherein all primary control units are  
2 notified to temporarily stop sending data.

1           11.    The article of manufacture of claim 9, wherein the operations further  
2 comprise:  
3           at a primary control unit, resuming sending data after a predetermined period of  
4 time has expired without receipt of notification to resume sending data.

1           12.    The article of manufacture of claim 9, wherein the operations further  
2 comprise:  
3           when the amount of resources used is above a final threshold, re-notifying the one  
4 or more primary control units to temporarily stop sending data.

1           13.    The article of manufacture of claim 9, wherein at least one of the resources  
2 is a cache.

1           14.     The article of manufacture of claim 9, wherein the amount is measured by a  
2 percentage.

1           15.     The article of manufacture of claim 9, wherein the one or more primary  
2 control units that are notified to temporarily stop sending data are selected based on an  
3 amount of resources being used by each primary control unit.

1           16.     The article of manufacture of claim 15, wherein the operations further  
2 comprise:  
3           maintaining information on the amount of resources being used by each primary  
4 control unit.

1           17.     A system for throttling data transfer, comprising:  
2           means for determining an amount of resources that are in use;  
3           means for when the amount of resources reaches a high threshold, notifying one or  
4 more primary control units to temporarily stop sending data; and  
5           means for when the amount of resources reaches a low threshold, notifying each  
6 previously notified primary control unit to resume sending data.

1           18.     The system of claim 17, wherein all primary control units are notified to  
2 temporarily stop sending data.

1           19.     The system of claim 17, further comprising:  
2           at a primary control unit, means for resuming sending data after a predetermined  
3 period of time has expired without receipt of notification to resume sending data.

1           20.    The system of claim 17, further comprising:  
2           when the amount of resources used is above a final threshold, means for re-  
3 notifying the one or more primary control units to temporarily stop sending data.

1           21.    The system of claim 17, wherein at least one of the resources is a cache.

1           22.    The system of claim 17, wherein the amount is measured by a percentage.

1           23.    The system of claim 17, wherein the one or more primary control units that  
2 are notified to temporarily stop sending data are selected based on an amount of resources  
3 being used by each primary control unit.

1           24.    The system of claim 23, further comprising:  
2           means for maintaining information on the amount of resources being used by each  
3 primary control unit.